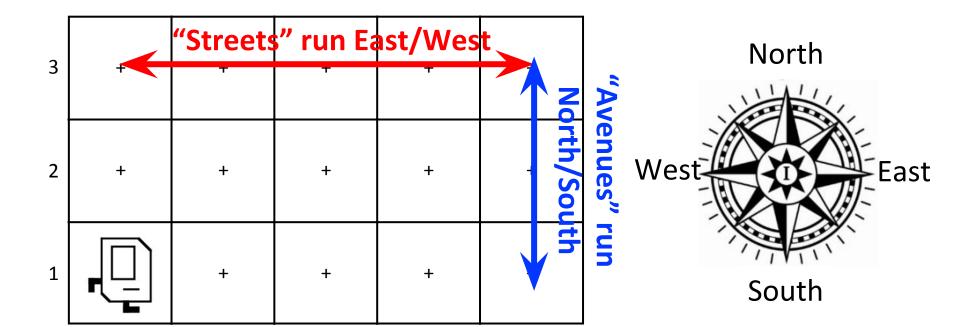
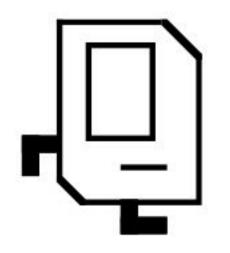


more







move

turnLeft

putBeeper

pickBeeper

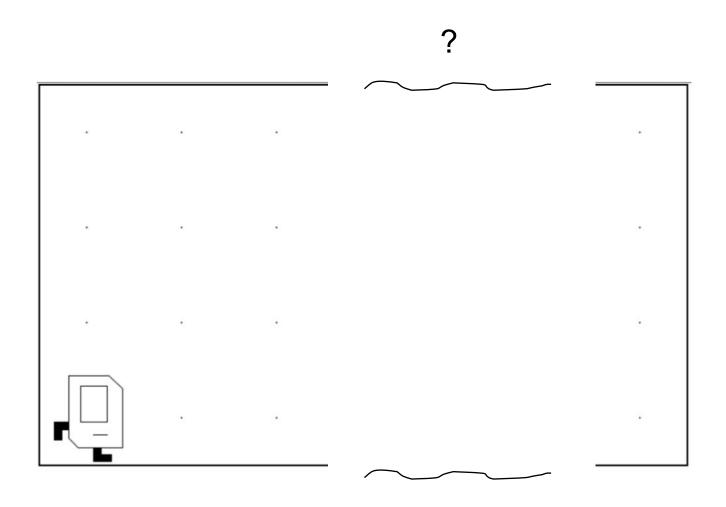
```
def main():
    move_to_newspaper()
    pick_beeper()
def move_to_newspaper():
    move()
    move()
    turn_left()
    turn_left()
    turn_left()
    move()
    turn_left()
    move()
```

```
def turn_right():
    turn_left()
    turn_left()
    turn_left()
```

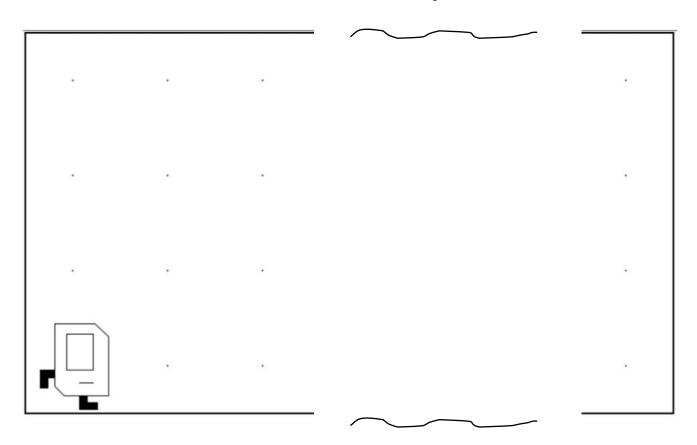
```
def turn_right():
    for i in range(3):
        turn_left()
```

```
from karel.stanfordkarel import *
0.00
File: collect_newspaper_karel.py
                                          Multi-line comment
Karel picks beeper in front of his house.
11 11 11
def main():
                                             Main function
   pick_beeper()
   move_to_start()
def turn_right():
                                             Our function
   for i in range(3):
       turn_left()
def move_to_start():
                                             Single-line comment
   # turn around ←
   turn_left()
   turn_left()
   # move back to start
   for i in range(3):
       move()
   turn_right()
   move()
   # reorient to face right
   turn_right()
# There is no need to edit code beyond this point
if __name__ == "__main__":
   run_karel_program()
```

Fill a street with beepers in a world of any size.

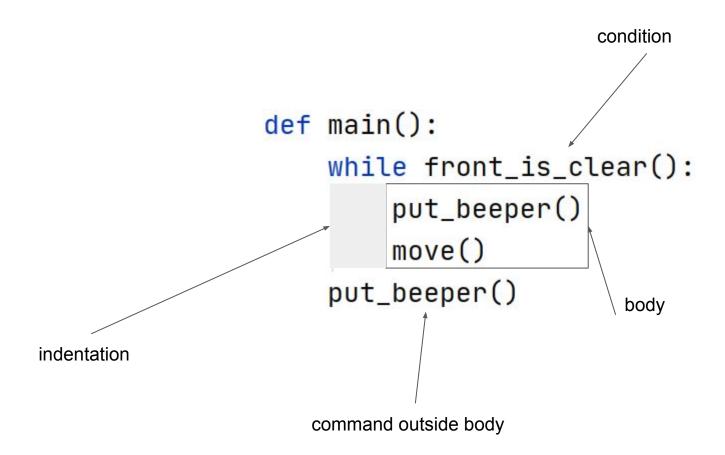


?

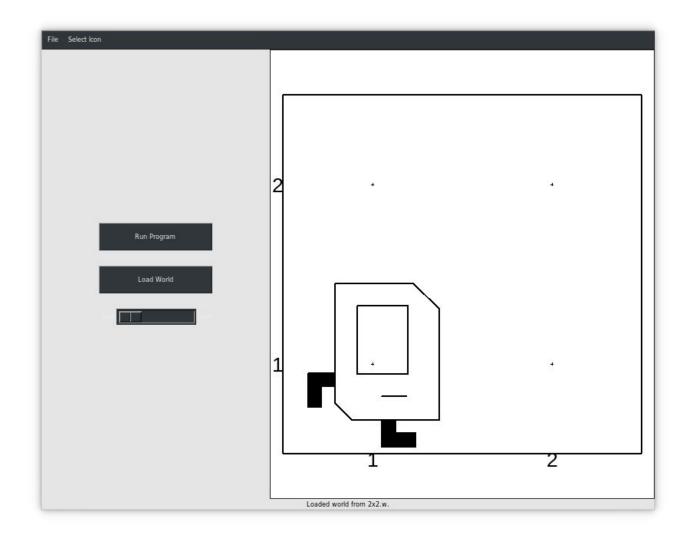


```
def main():
    for i in range(?):
        put_beeper()
        move()
```

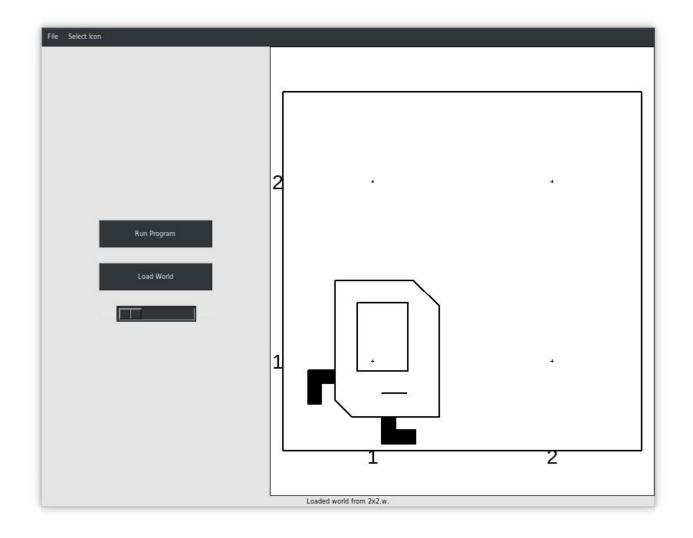
Test	Opposite	What it checks
front_is_clear()	front_is_blocked()	Is there a wall in front of Karel?
left_is_clear()	left_is_blocked()	Is there a wall to Karel's left?
right_is_clear()	right_is_blocked()	Is there a wall to Karel's right?
beepers_present()	no_beepers_present()	Are there beepers on this corner?
beepers_in_bag()	no_beepers_in_bag()	Any there beepers in Karel's bag?
facing_north()	not_facing_north()	Is Karel facing north?
facing_east()	not_facing_east()	Is Karel facing east?
facing_south()	not_facing_south()	Is Karel facing south?
facing_west()	not_facing_west()	Is Karel facing west?



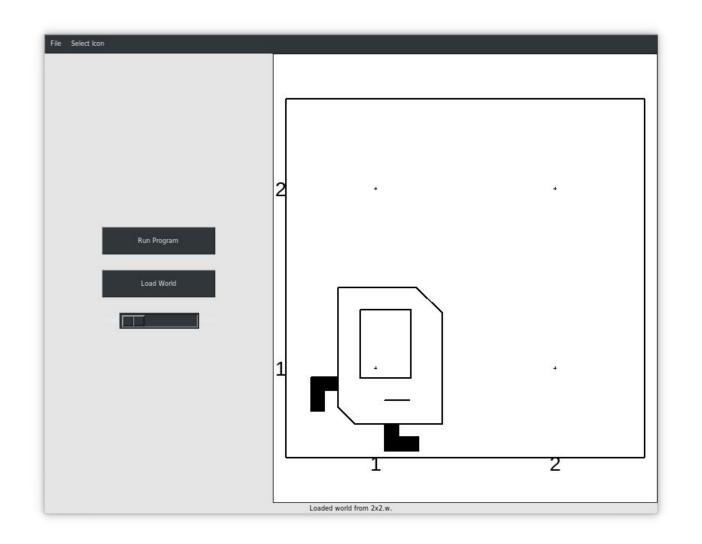
```
def main():
    while front_is_clear():
        put_beeper()
        move()
```



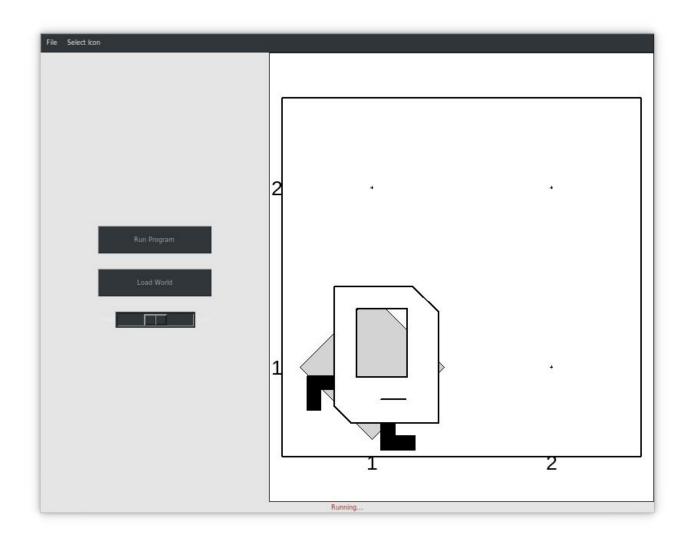
```
def main():
    while front_is_clear():
        put_beeper()
        move()
```



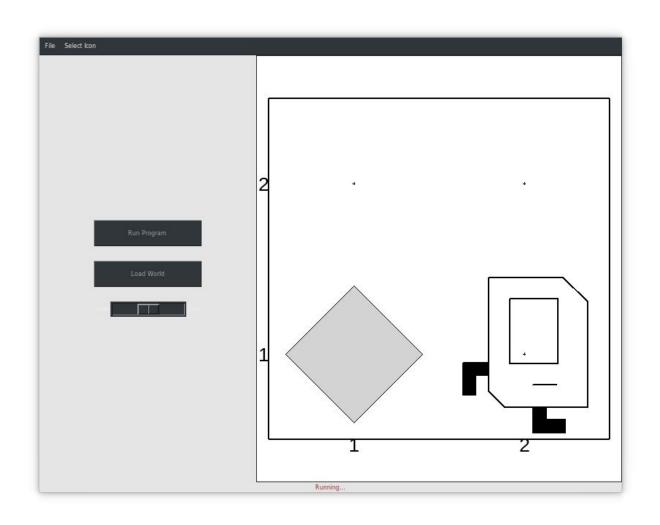
```
def main():
    while front_is_clear():
        put_beeper()
        move()
```



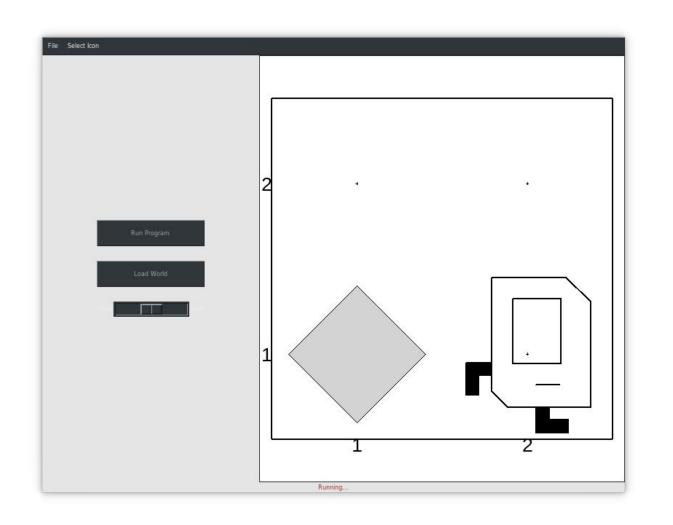
```
def main():
    while front_is_clear():
        put_beeper()
        move()
```



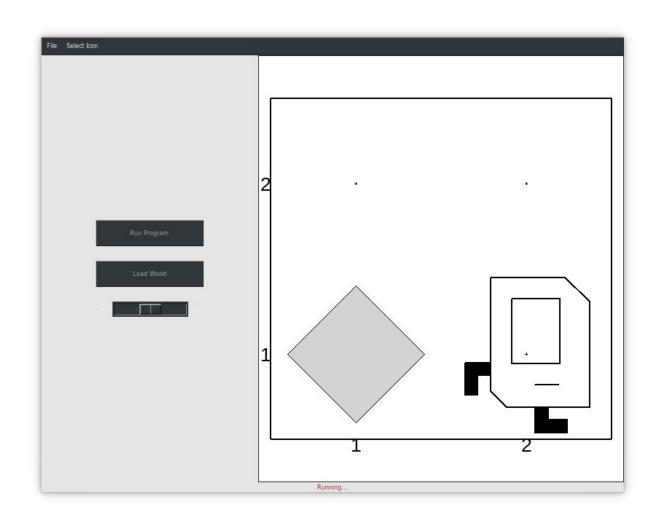
```
def main():
    while front_is_clear():
        put_beeper()
        move()
```



```
def main():
    while front_is_clear():
        put_beeper()
        move()
```

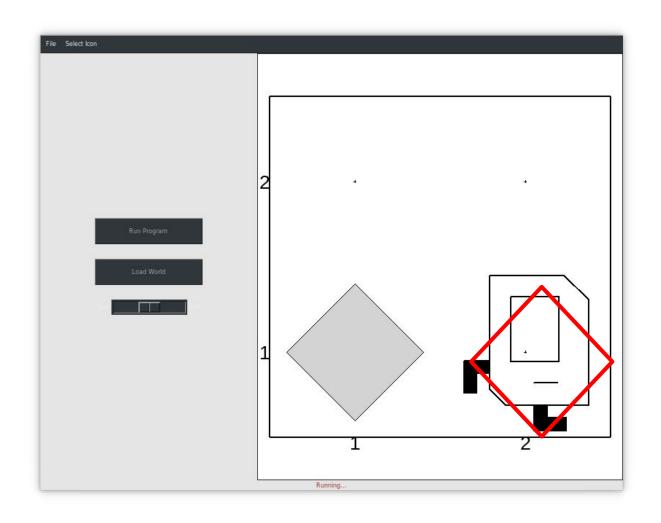


```
def main():
    while front_is_clear():
        put_beeper()
        move()
```

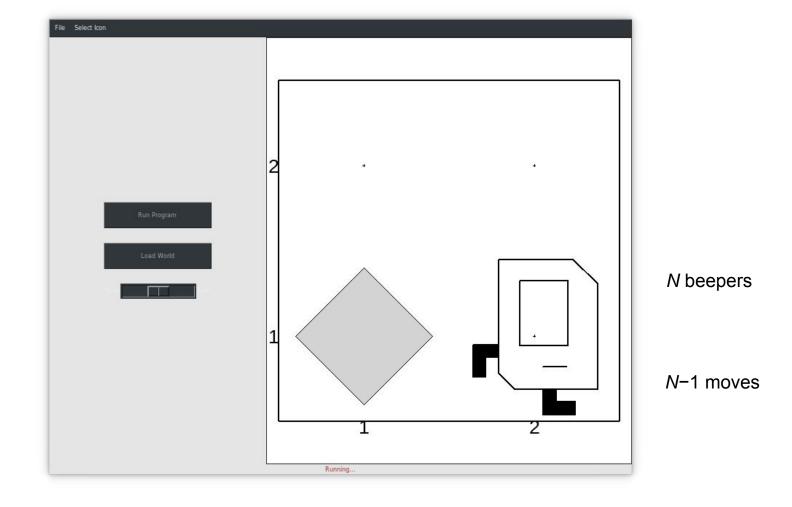


```
def main():
    while front_is_clear():
        put_beeper()
        move()
```

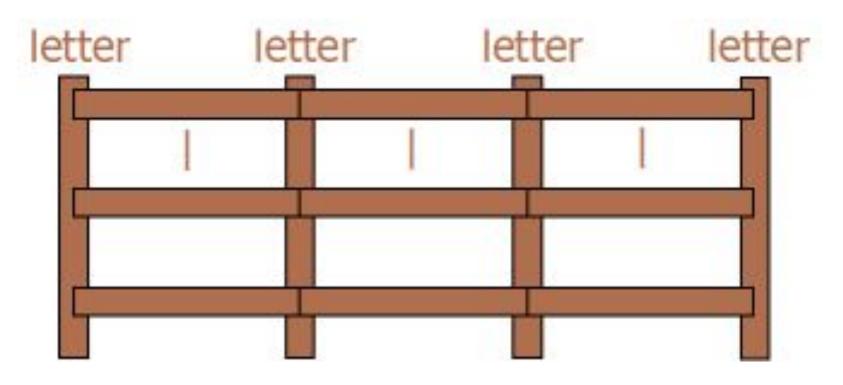




## 

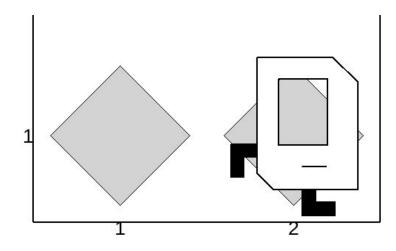


## Fence Post Problem



Also sometimes called an "Off By One Error"

```
def main():
                    while front_is_clear():
                         put_beeper()
                         move() ← Happens N−1-times
                    put_beeper()
Happens N-times (together)
```



```
for i in range(25):
    put_beeper()
    move()
put_beeper()
```

```
while front_is_clear():
    put_beeper()
    move()
put_beeper()
```